L Number	Hits	Search Text	DB	Time stamp
1	2206	disrupt$6 near11 homologous near3 recombinat$6	USPAT; US-PGPUB	2003/12/03 12:35
2	0	(disrupt$6 near11 homologous near3 recombinat$6) same (EST or express$ adj1 sequence adj1 tag$1)	USPAT; US-PGPUB	2003/12/03 12:36
3	837	(disrupt$6 near11 homologous near3 recombinat$6) and (EST or express$ adj1 sequence adj1 tag$1)	USPAT; US-PGPUB	2003/12/03 12:37

```
     (FILE 'HOME' ENTERED AT 10:54:53 ON 03 DEC 2003)

     FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 10:57:28 ON 03 DEC 2003
L1          1401 S PG1 OR PG(W)1
L2             1 S L1 AND ACYLTRANSFERASE#
L3           299 S LYSOPHOSPHATIDIC (9A) ACYLTRANSFERASE#
L4             1 S L3 AND EPSILON
L5            16 S L1 AND PROSTATE (3A) CANCER
L6            11 DUP REM L5 (5 DUPLICATES REMOVED)

     FILE 'CAPLUS' ENTERED AT 11:13:43 ON 03 DEC 2003
L7             0 S 6265546
L8             1 S US6265546
L9             1 S L8 AND SEQUENCE

     FILE 'REGISTRY' ENTERED AT 11:16:12 ON 03 DEC 2003
L10            1 S 73989-05-6/RN
                 SET NOTICE 1 DISPLAY
                 SET NOTICE LOGIN DISPLAY

     FILE 'REGISTRY' ENTERED AT 11:17:55 ON 03 DEC 2003
L11           12 S GAGCGGGAGCAGGACAGACAATAACTGATA/SQSN

     FILE 'CAPLUS' ENTERED AT 11:19:04 ON 03 DEC 2003
L12            3 S L11

     FILE 'STNGUIDE' ENTERED AT 11:21:12 ON 03 DEC 2003

     FILE 'CAPLUS' ENTERED AT 11:35:37 ON 03 DEC 2003
L13            1 S 453658-92-9/RN
L14            0 S L13 AND GENBANK

=>
```

```
* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

  NEWS  1            Web Page URLs for STN Seminar Schedule - N. America
  NEWS  2            "Ask CAS" for self-help around the clock
  NEWS  3  SEP 09    CA/CAplus records now contain indexing from 1907 to the
                     present
  NEWS  4  AUG 05    New pricing for EUROPATFULL and PCTFULL effective
                     August 1, 2003
  NEWS  5  AUG 13    Field Availability (/FA) field enhanced in BEILSTEIN
  NEWS  6  AUG 18    Data available for download as a PDF in RDISCLOSURE
  NEWS  7  AUG 18    Simultaneous left and right truncation added to PASCAL
  NEWS  8  AUG 18    FROSTI and KOSMET enhanced with Simultaneous Left and Righ
                     Truncation
  NEWS  9  AUG 18    Simultaneous left and right truncation added to ANABSTR
  NEWS 10  SEP 22    DIPPR file reloaded
  NEWS 11  SEP 25    INPADOC: Legal Status data to be reloaded
  NEWS 12  SEP 29    DISSABS now available on STN
  NEWS 13  OCT 10    PCTFULL: Two new display fields added
  NEWS 14  OCT 21    BIOSIS file reloaded and enhanced
  NEWS 15  OCT 28    BIOSIS file segment of TOXCENTER reloaded and enhanced
  NEWS 16  NOV 24    MSDS-CCOHS file reloaded

  NEWS EXPRESS  NOVEMBER 14 CURRENT WINDOWS VERSION IS V6.01c, CURRENT
                MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
                AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
  NEWS HOURS    STN Operating Hours Plus Help Desk Availability
  NEWS INTER    General Internet Information
  NEWS LOGIN    Welcome Banner and News Items
  NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
  NEWS WWW      CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
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  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 12:37:19 ON 03 DEC 2003

=> file medline biosis caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

FILE 'MEDLINE' ENTERED AT 12:37:27 ON 03 DEC 2003

FILE 'BIOSIS' ENTERED AT 12:37:27 ON 03 DEC 2003
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FILE 'CAPLUS' ENTERED AT 12:37:27 ON 03 DEC 2003
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COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> s disrupt? (9a) homolog? (9a) recombin?
```

```
L1          1377 DISRUPT? (9A) HOMOLOG? (9A) RECOMBIN?

=> s l1 and (EST or express(w)sequence)
L2             4 L1 AND (EST OR EXPRESS(W) SEQUENCE)

=> d 1-4 ti

L2   ANSWER 1 OF 4  BIOSIS  COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
     Citing References
TI   The DT40 web site: Sampling and connecting the genes of a B cell line.

L2   ANSWER 2 OF 4  CAPLUS  COPYRIGHT 2003 ACS on STN
     Citing References
TI   Endocrine disruptor screening using DNA chips of endocrine
     disruptor-responsive genes

L2   ANSWER 3 OF 4  CAPLUS  COPYRIGHT 2003 ACS on STN
     Citing References
TI   The DT40 web site: sampling and connecting the genes of a B cell line

L2   ANSWER 4 OF 4  CAPLUS  COPYRIGHT 2003 ACS on STN
     Citing References
TI   Moss (Physcomitrella patens) expressed sequence tags include several
     sequences which are novel for plants


=> d 3 bib ab

L2   ANSWER 3 OF 4  CAPLUS  COPYRIGHT 2003 ACS on STN
     Full Text  Citing References
AN   2002:129791  CAPLUS
DN   136:145956
TI   The DT40 web site: sampling and connecting the genes of a B cell line
AU   Buerstedde, Jean-Marie; Arakawa, Hiroshi; Watahiki, Akira; Carninci, Piere
     Piero; Hayashizaki, Y. Yoshihide; Korn, Bernhard; Plachy, Jiri
CS   Dep. Cellular Immunology, Heinrich-Pette-Inst., Hamburg, 20251, Germany
SO   Nucleic Acids Research (2002), 30(1), 230-231
     CODEN: NARHAD; ISSN: 0305-1048
PB   Oxford University Press
DT   Journal
LA   English
AB   Thousands of new vertebrate genes have been discovered and genetic systems
     are needed to address their functions at the cellular level. The chicken
     B cell line DT40 allows efficient gene disruptions due to its high
     homologous recombination activity. However, cloning the gene of
     interest is often cumbersome, since relatively few chicken cDNA sequences
     are present in the public databases. In addn., the accumulation of
     multiple mutations within the same cell clone is limited by the
     consumption of one drug-resistance marker for each transfection. Here,
     the authors present the DT40 web site (http://genetics.hpi.uni-
     hamburg.de/dt40.html), which includes a comprehensive database of chicken
     bursal ESTs to identify disruption candidate genes and recyclable marker
     cassettes based on the loxP system. These freely available resources
     greatly facilitate the anal. of genes and genetic networks.
RE.CNT  12    THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
```

ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
=> d 3 kwic

L2   ANSWER 3 OF 4  CAPLUS  COPYRIGHT 2003 ACS on STN
```



```
AB   . . . systems are needed to address their functions at the cellular
     level. The chicken B cell line DT40 allows efficient gene disruptions
     due to its high homologous recombination activity. However, cloning
     the gene of interest is often cumbersome, since relatively few chicken
     cDNA sequences are present in the. . .
ST   chicken B cell line DT40 EST database; gene expression database chicken
     B cell line DT40; expressed sequence tag database chicken B cell line DT40
IT   EST (expressed sequence tag)
     Gene, animal
     RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
     (Biological study)
        (expressed sequence tags in the DT40 web site provides sampling and
        connecting of the genes of a chicken bursal B cell line)


=> dhis
DHIS IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> d his

     (FILE 'HOME' ENTERED AT 12:37:19 ON 03 DEC 2003)

     FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 12:37:27 ON 03 DEC 2003
L1         1377 S DISRUPT? (9A) HOMOLOG? (9A) RECOMBIN?
L2            4 S L1 AND (EST OR EXPRESS(W)SEQUENCE)

=> s l1 and (EST# or express(w)sequence)
L3           10 L1 AND (EST# OR EXPRESS(W) SEQUENCE)

=> dup rem l3
PROCESSING COMPLETED FOR L3
L4            7 DUP REM L3 (3 DUPLICATES REMOVED)

=> d 1-7 ti

L4   ANSWER 1 OF 7  CAPLUS  COPYRIGHT 2003 ACS on STN
```



```
TI   Endocrine disruptor screening using DNA chips of endocrine
     disruptor-responsive genes

L4   ANSWER 2 OF 7     MEDLINE on STN                    DUPLICATE 1
```



```
TI   The DT40 web site: sampling and connecting the genes of a B cell line.

L4   ANSWER 3 OF 7  CAPLUS  COPYRIGHT 2003 ACS on STN
```

TI Colletotrichum gloeosporioides pelB is an important virulence factor in avocado fruit-fungus interaction

L4 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2003 ACS on STN

Citing References

TI SodA and manganese are essential for resistance to oxidative stress in growing and sporulating cells of Bacillus subtilis

L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2003 ACS on STN

Citing References

TI A yeast mutant lacking thiol-dependent protector protein is hypersensitive to menadione

L4 ANSWER 6 OF 7 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN

Citing References

DUPLICATE 2

TI Moss (Physcomitrella patens) expressed sequence tags include several sequences which are novel for plants.

L4 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2003 ACS on STN

Citing References

TI The lipase gene of Bacillus subtilis 168

=> d 7 bib ab

L4 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

AN 1992:167540 CAPLUS
DN 116:167540
TI The lipase gene of Bacillus subtilis 168
AU Colson, C.; Dartois, V.; Schanck, K.; Baulard, A.
CS Lab. Genet. Microb., Univ. Cathol. Louvain, Louvain-la-Neuve, B-1348, Belg.
SO GBF Monographs (1991), 16(Lipases), 277-83
CODEN: GBMOEB; ISSN: 0930-4320
DT Journal
LA English
AB Shotgun cloning of B. subtilis 168 DNA in Escherichia coli yielded two types of lipase-pos. clones designated lipA and lipB. However, the lipB enzyme was an esterase, on the basis of the preferential cleavage of esters of short chain fatty acids and of the absence of fluorescent reaction on triolein/rhodamin G medium. By multiple Tn5 transposon inactivations, gene lipA was **estd**. to be about 700 base pairs long. Both genes were inactivated in B. subtilis by reciprocal **recombination** with the **homologous** gene **disrupted** in vitro by a DNA segment contg. antibiotic resistance (lipA::Km; lipB::Cm). The resulting strain expressed very little residual extracellular lipase-esterase activity. Mapping expts. indicated that lipA is a new locus at about 22°, whereas lipB, at about 306°, could correspond to an esterase gene (**estB**) previously described.

=> d his

```
     (FILE 'HOME' ENTERED AT 12:37:19 ON 03 DEC 2003)

     FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 12:37:27 ON 03 DEC 2003
L1          1377 S DISRUPT? (9A) HOMOLOG? (9A) RECOMBIN?
L2             4 S L1 AND (EST OR EXPRESS(W)SEQUENCE)
L3            10 S L1 AND (EST# OR EXPRESS(W)SEQUENCE)
L4             7 DUP REM L3 (3 DUPLICATES REMOVED)

=> s l1 and random (3a) sequence#
L5             1 L1 AND RANDOM (3A) SEQUENCE#

=> d bib ab

L5   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2003 ACS on STN
```

Full Text | Citing References

```
AN   2003:97548  CAPLUS
DN   138:148653
TI   Methods for in-frame gene disruption by homologous recombination and
     uses for gene discovery
IN   Awrey, Donald E.; Greenblatt, Jack
PA   Affinium Pharmaceuticals Inc., Can.
SO   PCT Int. Appl., 56 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.         KIND  DATE          APPLICATION NO.   DATE
     ---------------    ----  --------      ---------------   --------
PI   WO 2003010333      A2    20030206      WO 2002-CA1160    20020724
     WO 2003010333      A3    20031030
          W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
              CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
              GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
              LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
              PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
              UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
              TJ, TM
          RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
              CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
              PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
              NE, SN, TD, TG
     US 2003082591      A1    20030501      US 2002-202442    20020724
PRAI US 2001-307461P    P     20010724
AB   The present invention relates to compns. and methods for in-frame
     disruption of a gene sequence by homologous recombination.
     Specifically, the invention uses a targeting polynucleotide comprising a
     mol. tag, which maybe a random sequence that does not occur in the
     host cell or a sequence encoding for a protein capable of generating a
     selectable or detectable signal, and flanking homol. clamps for in-frame
     disruption of a target gene.  The present invention may be used in certain
     embodiments to disrupt a gene without causing any downstream effects on
     non-target sequences.  In certain embodiments, the inventive methods may
     be used to identify and/or characterize products encoded by essential
     genes, conditionally essential genes, and non-essential genes.


=> d his

     (FILE 'HOME' ENTERED AT 12:37:19 ON 03 DEC 2003)
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```
     FILE 'MEDLINE, BIOSIS, CAPLUS' ENTERED AT 12:37:27 ON 03 DEC 2003
L1          1377 S DISRUPT? (9A) HOMOLOG? (9A) RECOMBIN?
L2             4 S L1 AND (EST OR EXPRESS(W)SEQUENCE)
L3            10 S L1 AND (EST# OR EXPRESS(W)SEQUENCE)
L4             7 DUP REM L3 (3 DUPLICATES REMOVED)
L5             1 S L1 AND RANDOM (3A) SEQUENCE#

=> s l1 and (arbitrar? or random?)
L6            17 L1 AND (ARBITRAR? OR RANDOM?)

=> dup rem l6
PROCESSING COMPLETED FOR L6
L7            12 DUP REM L6 (5 DUPLICATES REMOVED)

=> d 1-12 ti

L7   ANSWER 1 OF 12  CAPLUS  COPYRIGHT 2003 ACS on STN
```

Citing References

TI Methods for in-frame gene **disruption** by **homologous recombination** and uses for gene discovery

L7 ANSWER 2 OF 12 MEDLINE on STN

Citing References

TI PCR-based methods facilitate targeted gene manipulations and cloning procedures.

L7 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN

Citing References

TI Biological significance of poly (ADP-ribosyl)ation reactions: molecular and genetic approaches

L7 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN

Citing References

TI Construction of the glucose isomerase deficient strain of Streptomyces M1033 by homologous recombination

L7 ANSWER 5 OF 12 MEDLINE on STN DUPLICATE 1

Citing References

TI The absence of cecal colonization of chicks by a mutant of Campylobacter jejuni not expressing bacterial fibronectin-binding protein.

L7 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN

Citing References

TI Recombination in the plant genome and its application in biotechnology

L7 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN

Citing References

TI Insertion-duplication mutagenesis in Streptococcus pneumoniae: targeting fragment length is a critical parameter in use as a **random** insertion tool

L7 ANSWER 8 OF 12 MEDLINE on STN DUPLICATE 2

Citing References

TI Targeted disruption of Gnas in embryonic stem cells.

L7 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN

Citing References

TI An in vivo method for the detection of microbial virulence genes expressed during the infection of a host

L7 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN

Citing References

TI Immunological screening of homologous recombination in genes that encode surface antigens

L7 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN

Citing References

TI Gene targeting in the Ke4 locus of the mouse in embryonic stem cells

L7 ANSWER 12 OF 12 MEDLINE on STN DUPLICATE 3

Citing References

TI Insertion and deletion mutagenesis of the human cytomegalovirus genome.

=> d 10 11 7 8 bib a
'A' IS NOT A VALID FORMAT
In a multifile environment, a format can only be used if it is valid
in at least one of the files. Refer to file specific help messages
or the STNGUIDE file for information on formats available in
individual files.
REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT):d 10 11 7 8 bib ab
'D' IS NOT A VALID FORMAT
'10' IS NOT A VALID FORMAT
'11' IS NOT A VALID FORMAT
'7' IS NOT A VALID FORMAT
'8' IS NOT A VALID FORMAT
In a multifile environment, a format can only be used if it is valid
in at least one of the files. Refer to file specific help messages
or the STNGUIDE file for information on formats available in
individual files.
REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT):end

=> d 7, 8, 10, 11 bib ab

L7 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

AN 1998:799233 CAPLUS
DN 130:149237
TI Insertion-duplication mutagenesis in Streptococcus pneumoniae: targeting fragment length is a critical parameter in use as a **random** insertion tool
AU Lee, Myeong S.; Seok, Chaok; Morrison, Donald A.
CS Laboratory for Molecular Biology, Department of Biological Sciences, University of Illinois at Chicago, Chicago, IL, 60607, USA
SO Applied and Environmental Microbiology (1998), 64(12), 4796-4802
CODEN: AEMIDF; ISSN: 0099-2240
PB American Society for Microbiology
DT Journal
LA English

AB To examine whether insertion-duplication mutagenesis with chimeric DNA as a transformation donor could be valuable as a gene knockout tool for genomic anal. in Streptococcus pneumoniae, the authors studied the transformation efficiency and targeting specificity of the process by using a nonreplicative vector with homologous targeting inserts of various sizes. Insertional recombination was very specific in targeting homologous sites. While the recombination rate did not depend on which site or region was targeted, it did depend strongly on the size of the targeting insert in the donor plasmid, in proportion to the fifth power of its length for inserts of 100 to 500 bp. The dependence of insertion-duplication events on the length of the targeting homol. was quite different from that for linear allele replacement and places certain limits on the design of mutagenesis expts. The no. of independent pneumococcal targeting fragments of uniform size required to knock out any desired fraction of the genes in a model genome with a defined probability was calcd. from these data by using a combinatorial theory with simplifying assumptions. The results show that efficient and thorough mutagenesis of a large part of the pneumococcal genome should be practical when using insertion-duplication mutagenesis.

RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 8 OF 12 MEDLINE on STN DUPLICATE 2

Full Text | Citing References

AN 97462685 MEDLINE
DN 97462685 PubMed ID: 9322912
TI Targeted disruption of Gnas in embryonic stem cells.
AU Schwindinger W F; Reese K J; Lawler A M; Gearhart J D; Levine M A
CS Division of Endocrinology and Metabolism, The Johns Hopkins University School of Medicine, Baltimore, Maryland 21205, USA..
wschwind@welchlink.welch.jhu.edu
NC DK-34281 (NIDDK)
RR-00052 (NCRR)
RR-00722-22S1 (NCRR)
SO ENDOCRINOLOGY, (1997 Oct) 138 (10) 4058-63.
Journal code: 0375040. ISSN: 0013-7227.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Abridged Index Medicus Journals; Priority Journals
EM 199710
ED Entered STN: 19971105
Last Updated on STN: 20000303
Entered Medline: 19971023

AB Mutations in the gene encoding the stimulatory G protein of adenylyl cyclase (G alpha(s)) are present in subjects with Albright hereditary osteodystrophy, a syndrome of characteristic developmental defects and, in some patients, resistance to multiple hormones that stimulate cAMP accumulation (pseudohypoparathyroidism type Ia). As the first step in generating a model of Albright hereditary osteodystrophy, the gene encoding G alpha(s) (Gnas) was **disrupted** in mouse embryonic stem (ES) cells by **homologous recombination**. Northern blot analysis and immunoblot analysis demonstrated that steady-state levels of G alpha(s) messenger RNA and G alpha(s) protein in targeted ES cells were approximately 50% of levels in untargeted ES cells. In response to 10 microM forskolin and to various concentrations of isoproterenol (0.1-3.0 microM), cAMP accumulation was reduced in the G alpha(s) knockout ES cell lines, relative to wild-type ES cells and to five of six ES cell lines with **randomly** integrated targeting vector. These results support the

☐ **1:** N39909. yw68a10.r1 Soares...[gi:1163454] Links

IDENTIFIERS

dbEST Id:	**441359**
EST name:	yw68a10.r1
GenBank Acc:	N39909
GenBank gi:	1163454
GDB Id:	3886980

CLONE INFO

Clone Id:	IMAGE:257370 (5')
DNA type:	cDNA

PRIMERS

Sequencing:	T7
PolyA Tail:	Unknown

SEQUENCE

GTTGATCTTAAGTGGTTTGACTGCAGGCATGCTTATGACCGATGCTGGAAGGAAGCTGTA
TGTGAACACCTGGATATATGGAACCCTACTTGGCTGCCTGTGGGTTACTATTAAAGCATA
GACAAGTAGCTGTCTCCAGACAGTGGGATGTGCTACATTGTCTATTTTTGGCGGCTGCAC
ATGACATCAAATTGTTTCCTGAATTTATTAAGGAGTGTAAATAAAGCCTTGTTGATTGAA
GATTGGATAATAGAATTTGTGACGAAAGCTGATATGCAATGGTCTTGGGCAAACATACCT
GGTTGTACAACTTTAGCATCGGGGCTGCTGGAAGGGTAAAAGCTAAATGGAGTTTCTCCT
GCTCTGTCCATTTCCTATGAACTAATGACAACTTGGAGAAGGCTGGGAGGATTGTGTATT
TTGCCAAGTCAGATGGCTGCATTTTTGAGCCATTAATTTGCCAGCGTATTTCACTTTTNC
TGGTAATTTNCAATTTAATTACAACTTGACAGCTCCCAANCTCTTAATACCAAAGNT

Quality: High quality sequence stops at base: 413

Entry Created:	Jan 22 1996
Last Updated:	Jan 22 1996

COMMENTS

High quality sequence stops: 413
Source: IMAGE Consortium, LLNL
This clone is available royalty-free through LLNL ; contact the IMAGE Consortium (info@image.llnl.gov) for further information.

LIBRARY

Lib Name:	Soares_placenta_8to9weeks_2NbHP8to9W
Organism:	Homo sapiens
Organ:	placenta
Develop. stage:	two placentae: one from 8 weeks and another from 9 weeks post conception
Lab host:	DH10B (ampicillin resistant)
Vector:	pT7T3D (Pharmacia) with a modified polylinker
R. Site 1:	Not I
R. Site 2:	Eco RI

Description: 1st strand cDNA was primed with a Not I - oligo(dT) primer [5' TGTTACCAATCTGAAGTGGGAGCGGCCGCGATTTTTTTTTTTTTTTTT 3'], double-stranded cDNA was size selected, ligated to Eco RI adapters (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of a modified pT7T3 vector (Pharmacia). Library constructed by Bento Soares and M.Fatima Bonaldo.

SUBMITTER

Name: Wilson RK
Institution: Washington University School of Medicine
Address: 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
E-mail: est@watson.wustl.edu

CITATIONS

Title: The WashU-Merck EST Project
Authors: Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons,J., Rifkin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P., Wilson,R.
Year: 1995
Status: Unpublished

MAP DATA

1: H06164. yl77g12.r1 Soares...[gi:869716]

Links

IDENTIFIERS

dbEST Id:	**266044**
EST name:	yl77g12.r1
GenBank Acc:	H06164
GenBank gi:	869716
GDB Id:	416805

CLONE INFO

Clone Id:	IMAGE:44264 (5')
Insert length:	2510
DNA type:	cDNA

PRIMERS

Sequencing:	M13RP1
PolyA Tail:	Unknown

SEQUENCE

TTAATTCCAAATTAAGTATCAAGAAGACTTTACCATCAATGTTGATCTTAAGTGGTTTGA
CTGCAGGCATGCTTATGACCGATGCTGGAAGGAAGCTGTATGTGAACACCTGGATATATG
GAACCCTACTTGGCTGCCTGTGGGTTACTATTAAAGCATAGACAAGTAGCTGTCTCCAGA
CAGTGGGATGTGCTACATTGTCTATTTTTGGCGGCTGCACATGACATCAAATTGTTTCCT
GAATTTATTAAGGAGTGTAAATAAAGCCTTGTTGATTGAAGATTGGATAATAGAATTTGT
GACGAAAGCTGATATGCAATGGTCTTGGGGCAAACATACCTGGGTTGTACAACTTTAGCA
TCGGGGCTGCTGGGAAGGGGTAAAAGCTTAAATGGGAGTTTCTCCCTGGNTCTGTTCCCT
T

Quality: High quality sequence stops at base: 316

Entry Created:	Jun 21 1995
Last Updated:	Jun 21 1995

COMMENTS

Insert Size: 2510
High quality sequence stops: 316
Source: IMAGE Consortium, LLNL
This clone is available royalty-free through LLNL ; contact the IMAGE Consortium (info@image.llnl.gov) for further information.

LIBRARY

Lib Name:	Soares infant brain 1NIB
Organism:	Homo sapiens
Sex:	female
Organ:	whole brain
Develop. stage:	73 days post natal
Lab host:	DH10B (ampicillin resistant)
Vector:	Lafmid BA
R. Site 1:	Not I

R. Site 2: Hind III
Description: 1st strand cDNA was primed with a Not I - oligo(dT) primer [5' AACTGGAAGAATTCGCGGCCGCAGGAATTTTTTTTTTTTTTTT 3']; double-stranded cDNA was ligated to Hind III adaptors (Pharmacia), digested with Not I and directionally cloned into the Not I and Hind III sites of the Lafmid BA vector. Library went through one round of normalization. Library constructed by Bento Soares and M.Fatima Bonaldo.

SUBMITTER

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CITATIONS

Title: The WashU-Merck EST Project
Authors: Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons,J., Rifkin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P., Wilson,R.
Year: 1995
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MAP DATA